

Project Title	Funding	Strategic Plan Objective	Institution
Multimodal Developmental Neurogenetics of Females with ASD	\$2,738,896	Q2.S.B	Yale University
Sex differences in the neural mechanisms of treatment response	\$0	Q2.S.B	Yale University
Regulation of cortical circuits by tsc1 in GABAergic interneurons	\$59,113	Q2.S.B	Yale University
Disrupted Network Activity in Neonatal Cortex of Mouse Models of Autism	\$62,500	Q2.S.B	Yale University
Role of GABA interneurons in a genetic model of autism	\$187,455	Q2.S.D	Yale University
Genetic investigations of motor stereotypies	\$62,403	Q2.S.G	Yale University
Developmental neurogenetics in adolescents with autism	\$124,834	Q2.S.G	Yale University
Undergraduate Research Award	\$3,000	Q2.L.A	Yale University
Near-infrared spectroscopy studies of early neural signatures of autism	\$149,915	Q2.L.B	Yale University
Neural markers of shared gaze during simulated social interactions in ASD	\$416,250	Q2.Other	Yale University
Neural markers of shared gaze during simulated social interactions in ASD	\$99,801	Q2.Other	Yale University
Functional analysis of EPHB2 mutations in autism - Project 1	\$90,616	Q2.Other	Yale University
Brain electrophysiology of interactive social stimuli	\$0	Q2.Other	Yale University
Social Brain Networks for the Detection of Agents and Intentions	\$416,250	Q2.Other	Yale University
Corticogenesis and Autism Spectrum Disorders: New Hypotheses on Transcriptional Regulation of Embryonic Neurogenesis by FGFs from In Vivo Studies and RNA-sequencing Analysis of Mouse Brain	\$0	Q2.Other	Yale University
Functional Genomics of Human Brain Development	\$1,338,015	Q2.Other	Yale University
Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design	\$0	Q2.Other	Yale University
Attention & word learning in children with ASD- Translating experimental findings into intervention	\$0	Q2.Other	Women & Infants Hospital
Allelic Choice in Rett Syndrome	\$390,481	Q2.S.D	WINIFRED MASTERSON BURKE MED RES INST
Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glial Co-cultures	\$0	Q2.S.D	Whitehead Institute for Biomedical Research
Studying Rett and Fragile X syndrome in human ES cells using TALEN technology	\$30,000	Q2.S.D	Whitehead Institute for Biomedical Research
Genetically defined stem cell models of Rett and fragile X syndrome	\$175,000	Q2.S.D	Whitehead Institute for Biomedical Research
Structural Polarity Influences Terminal Placement and Competition in Formation of the Calyx of Held	\$32,270	Q2.Other	WEST VIRGINIA UNIVERSITY
Regulation of SK2 channels by UBE3A	\$425,708	Q2.Other	WESTERN UNIVERSITY OF HEALTH SCIENCES

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Genetic model to study the ASD-associated gene A2BP1 and its target PAC1	\$62,500	Q2.Other	Weizmann Institute of Science
Local connectivity in altered excitation/inhibition balance states	\$62,500	Q2.Other	Weizmann Institute of Science
Comprehensive phenotypic characterization of the 17q12 deletion syndrome	\$62,500	Q2.S.G	Weis Center for Research - Geisinger Clinic
High metabolic demand of fast-spiking cortical interneurons underlying the etiology of autism	\$0	Q2.Other	Weill Cornell Medical College
Pathogenic roles of paternal-age-associated mutations in autism	\$125,000	Q2.Other	Weill Cornell Medical College
Studying Williams Syndrome to Better Characterize Early Social Behavior in ASD	\$5,000	Q2.S.G	Washington University in St. Louis
Mapping functional connectivity networks in autism spectrum disorder with diffuse optical tomography	\$0	Q2.Other	Washington University in St. Louis
An fMRI investigation of propagated intrinsic activity in early development and autism	\$28,934	Q2.Other	Washington University in St. Louis
Identifying a blood-based biomarker for Autism Spectrum Disorder-related inflammatory bowel disease	\$60,000	Q2.S.E	Wake Forest University
The role of brainstem NTS inflammation and oxidative stress in Autism	\$0	Q2.S.A	Wadsworth Center
Role of Draxin in Forebrain Connectivity and Complex Behaviors	\$216,128	Q2.Other	WADSWORTH CENTER
VIP Family Meetings	\$68,384	Q2.S.G	VIP Family Meetings
Fragile X syndrome target analysis and its contribution to autism	\$249,272	Q2.S.D	Vanderbilt University
mTOR modulation of myelination	\$179,659	Q2.S.D	Vanderbilt University
Genetic and Developmental Analyses of Fragile X Mental Retardation Protein	\$394,554	Q2.S.D	Vanderbilt University
Predicting Phenotypic Trajectories in Prader-Willi Syndrome	\$302,050	Q2.S.D	Vanderbilt University
Characterization of the sleep phenotype in adolescents and adults with autism spectrum disorder	\$150,000	Q2.S.E	Vanderbilt University
Relationship Between Subtypes of Restricted and Repetitive Behaviors and Sleep Disturbance in Autism Spectrum Disorder	\$27,552	Q2.S.E	Vanderbilt University
Autism Spectrum Disorders and Depression: Shared Mechanisms in Brain and Behavior	\$160,115	Q2.S.E	Vanderbilt University
Psychobiological investigation of the socioemotional functioning in autism	\$347,490	Q2.Other	Vanderbilt University
Neural networks for attention to internal and external sensory cues in ASD	\$374,510	Q2.Other	Vanderbilt University

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Mapping Thalamocortical Networks Across Development in ASD	\$195,834	Q2.Other	Vanderbilt University
Neurobehavioral Investigation of Tactile Features in Autism Spectrum Disorders	\$162,562	Q2.Other	Vanderbilt University
Signaling mechanisms in cerebellar development and function	\$494,324	Q2.Other	Vanderbilt University
FMRP regulates the pruning of cell-to-cell connections in the neocortex	\$79,500	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Mechanisms of mGluR5 function and dysfunction in mouse autism models	\$405,319	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Role of MEF2 and neural activity in cortical synaptic weakening and elimination	\$387,160	Q2.S.D	UT SOUTHWESTERN MEDICAL CENTER
Motor Control and Cerebellar Maturation in Autism	\$157,148	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
Bidirectional Tyrosine Kinase Signaling	\$614,042	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
Role of autism-associated chromatin remodeler Brg1 in neuronal development	\$238,500	Q2.Other	UT SOUTHWESTERN MEDICAL CENTER
Disruption of Reelin biosynthesis by de novo missense mutations found in aut	\$33,059	Q2.Other	UPSTATE MEDICAL UNIVERSITY
Translational Regulation of Adult Neural Stem Cells	\$372,621	Q2.S.D	University of Wisconsin
Biological Determinants of Brain Variation in Autism	\$578,397	Q2.S.G	University of Wisconsin
Speech disorders in individuals with 16p11.2 deletion or duplication	\$20,000	Q2.S.G	University of Wisconsin
Characterizing Lexical Processing in Toddlers with Autism Spectrum Disorders	\$553,221	Q2.Other	University of Wisconsin
Executive Function in Children with Typical and Atypical Language Abilities	\$564,177	Q2.Other	University of Wisconsin
Statistical Word Learning in Children with Language Disorders	\$29,799	Q2.Other	University of Wisconsin
Undergraduate Research Award	\$3,000	Q2.S.B	University of Washington
Development and afferent regulation of auditory neurons	\$386,250	Q2.S.D	University of Washington
Neural mechanisms underlying autism behaviors in SCN1A mutant mice	\$200,000	Q2.S.D	University of Washington
Phenotypic Characterization of Gene Disrupting Mutations in ASD	\$463,336	Q2.S.G	University of Washington
Simons Variation in Individuals Project (VIP) Site	\$302,353	Q2.S.G	University of Washington
Network Optimization of Functional Connectivity in Neuroimaging for Differential Diagnosis of Brain Diseases	\$5,000	Q2.Other	University of Washington
Fever, meningeal immunity and immune factors in autism	\$0	Q2.S.A	University of Virginia

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Bone marrow transplantation and the role of microglia in autism	\$172,031	Q2.S.A	University of Virginia
UBR7 is a novel chromatin directed E3 ubiquitin ligase	\$194,545	Q2.Other	UNIVERSITY OF VIRGINIA
Longitudinal Characterization of Functional Connectivity in Autism	\$182,352	Q2.L.A	University of Utah
CAREER: Statistical models and classification of time-varying shape	\$0	Q2.Other	University of Utah
Brain Network Development in Normal and Autistic Children	\$187,164	Q2.Other	University of Utah
Multiscale Genetic Connectivity of Primate Social Circuits	\$735,023	Q2.Other	University of Utah
DEVELOPMENT OF FACE PROCESSING EXPERTISE	\$354,267	Q2.Other	UNIVERSITY OF TORONTO
Mechanisms of synapse elimination by autism-linked genes	\$150,000	Q2.S.D	University of Texas Southwestern Medical Center
Molecular mechanisms of the synaptic organizer alpha-neurexin	\$388,750	Q2.Other	UNIVERSITY OF TEXAS MEDICAL BR GALVESTON
Genetic studies of autism-related Drosophila neurexin and neuroligin	\$0	Q2.Other	University of Texas Health Science Center, San Antonio
Social Cognitive Profiles of Autism and Schizophrenia	\$439,762	Q2.Other	UNIVERSITY OF TEXAS DALLAS
Altered placental tryptophan metabolism: A crucial molecular pathway for the fetal programming of neurodevelopmental disorders	\$0	Q2.S.A	University of Southern California
Factors influencing early associative learning as a precursor to social behavior heterogeneity	\$0	Q2.S.G	University of Southern California
HCC:Small:Computational studies of social nonverbal communication	\$0	Q2.Other	University of Southern California
Biology of Non-Coding RNAs Associated with Psychiatric Disorders	\$415,143	Q2.Other	UNIVERSITY OF SOUTHERN CALIFORNIA
Profiles and Predictors of Pragmatic Language Impairments in the FMR1 Premutation	\$53,132	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA
Emergence and Stability of Autism in Fragile X Syndrome	\$358,000	Q2.S.D	UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA
AUDITORY AND INTEGRATIVE FUNCTIONS OF THE PREFRONTAL CORTEX	\$393,700	Q2.Other	University of Rochester
Engrailed targets and the control of synaptic circuits in Drosophila	\$371,250	Q2.Other	UNIVERSITY OF PUERTO RICO MED SCIENCES
Cognitive Control of Emotion in Autism	\$101,348	Q2.Other	University of Pittsburgh
Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders	\$29,987	Q2.Other	University of Pittsburgh
Autoimmunity Against Novel Antigens in Neuropsychiatric Dysfunction	\$320,000	Q2.S.A	UNIVERSITY OF PENNSYLVANIA

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GABA and Gamma-band Activity: Biomarker for ASD?	\$0	Q2.S.D	University of Pennsylvania
Genetic contribution to language-related preclinical biomarkers of autism	\$0	Q2.S.D	University of Pennsylvania
Early Life Seizures Disrupt Critical Period Plasticity	\$409,568	Q2.S.E	UNIVERSITY OF PENNSYLVANIA
Early Life Seizures Disrupt Critical Period Plasticity	\$2,237	Q2.S.E	UNIVERSITY OF PENNSYLVANIA
Statistical methodology and analysis of the Simons Simplex Collection and related data	\$142,350	Q2.S.G	University of Pennsylvania
Quantifiable markers of ASD via multivariate MEG-DTI combination	\$202,233	Q2.L.B	UNIVERSITY OF PENNSYLVANIA
Novel computational methods for higher order diffusion MRI in autism	\$626,233	Q2.Other	UNIVERSITY OF PENNSYLVANIA
Magnetoencephalographic studies of lexical processing and abstraction in autism	\$306,974	Q2.Other	UNIVERSITY OF PENNSYLVANIA
Neuropathology of the social-cognitive network in Autism: a comparison with other structural theories	\$0	Q2.Other	University of Oxford
Subependymal zone function in autism spectrum disorders	\$0	Q2.Other	University of Oxford
Contribution of cerebellar CNTNAP2 to autism in a mouse model	\$0	Q2.Other	University of Oxford
Anti-Neuronal Autoantibodies against Bacterial Polysaccharides in Autism Spectrum Disorders	\$100,000	Q2.S.A	University of Oklahoma Health Sciences Center
Anti-Neuronal Autoantibodies in PANDAS and Autism Spectrum Disorders	\$0	Q2.S.A	University of Oklahoma Health Sciences Center
Role of UBE3A in the Central Nervous System	\$321,269	Q2.S.D	University of North Carolina
A Longitudinal MRI Study of Brain Development in Fragile X Syndrome	\$548,356	Q2.S.D	University of North Carolina
Functional and anatomical recovery of synaptic deficits in a mouse model of Angelman Syndrome	\$0	Q2.S.D	University of North Carolina
Bi-directional regulation of Ube3a stability by cyclic AMP-dependent kinase	\$0	Q2.S.D	University of North Carolina
Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4	\$30,000	Q2.S.D	University of North Carolina
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	University of North Carolina
Genome-wide Identification of Variants Affecting Early Human Brain Development	\$413,630	Q2.S.G	University of North Carolina
A Longitudinal MRI Study of Infants at Risk for Autism	\$2,429,945	Q2.L.A	University of North Carolina
Neural Circuits That Regulate Social Motivation in Autism	\$146,325	Q2.Other	University of North Carolina

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Correcting excitatory-inhibitory imbalance in autism	\$225,000	Q2.Other	University of North Carolina
The Elongation Hypothesis of Autism	\$752,400	Q2.Other	University of North Carolina
Neural Synchrony and Plasticity in Children with Autism	\$54,400	Q2.Other	University of North Carolina
Brain Transcriptome Sequencing and Non-coding RNA Characterization in Autism Spectrum Disorders	\$14,950	Q2.Other	University of New South Wales
Mechanisms of synaptic alterations in a neuroinflammation model of autism	\$0	Q2.S.A	University of Nebraska
A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome	\$0	Q2.S.D	University of Nebraska
Mechanisms of Motor Skill Learning in the Fragile X Mouse Model	\$299,510	Q2.S.D	University of Nebraska
Matrix metalloproteinases expression in autism spectrum disorders	\$0	Q2.Other	University of Naples
Novel candidate mechanisms of fragile X syndrome	\$248,873	Q2.S.D	UNIVERSITY OF MICHIGAN
Dendritic 'translatome' in fragile X syndrome and autism	\$60,000	Q2.S.D	University of Michigan
Reconceptualizing Brain Connectivity and Development in Autism	\$0	Q2.Other	University of Miami
Structural and Functional Connectivity of Large-Scale Brain Networks in Autism	\$112,748	Q2.Other	University of Miami
Investigating the Role of RBFOX1 in Autism Etiology	\$30,000	Q2.Other	University of Miami
Functional analysis of Neuroligin-Neurexin interactions in synaptic transmission	\$336,875	Q2.Other	University of Massachusetts, Worcester
Prostaglandins and Cerebellum Development	\$371,250	Q2.S.A	University of Maryland
Foxp2 regulation of sex specific transcriptional pathways and brain development	\$88,128	Q2.S.B	University of Maryland
A neural model of fronto-parietal mirror neuron system dynamics	\$185,646	Q2.Other	University of Maryland
How autism affects speech understanding in multitalker environments	\$0	Q2.Other	University of Maryland
BRAIN MECHANISMS OF AFFECTIVE LANGUAGE COMPREHENSION IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	University of Maryland
Neuropathology of the Shank3 mouse model for autism	\$1,100	Q2.S.D	University of Louisville
Children with 7q11.23 duplication syndrome: shared characteristics with autism	\$250,000	Q2.S.G	University of Louisville
BRIGE: Emotion mapping of children through human-robot interaction and affective computing	\$0	Q2.Other	University of Louisville
16p11.2 rearrangements: Genetic paradigms for neurodevelopmental disorders	\$100,000	Q2.S.D	University of Lausanne

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SHB: Type II (INT): Synthesizing self-model and mirror feedback imageries with applications to behavior modeling for children with autism	\$0	Q2.Other	University of Kentucky
Molecular Dissection of Calmodulin Domain Functions	\$321,473	Q2.Other	UNIVERSITY OF IOWA
Wnt modulation as a treatment for Autism Spectrum Disorders	\$222,318	Q2.Other	UNIVERSITY OF IOWA
Dysregulation of Mdm2-mediated p53 ubiquitination in autism mouse models	\$60,000	Q2.S.D	University of Illinois at Chicago
Beta-catenin signaling in autism spectrum disorders	\$0	Q2.S.G	University of Illinois at Chicago
Social interaction and reward in autism: Possible role for ventral tegmental area	\$62,440	Q2.Other	University of Geneva
Physiological studies in a human stem cell model of 15q duplication syndrome	\$0	Q2.S.D	University of Connecticut
Molecular mechanisms linking early life seizures, autism and intellectual disability	\$326,289	Q2.S.E	University of Colorado, Denver
Multimodal neuroimaging of motor dysfunction in autism spectrum disorders	\$0	Q2.Other	University of Colorado, Denver
Cerebellar plasticity and learning in a mouse model of autism	\$60,000	Q2.S.D	University of Chicago
Translating OCD GWAS findings into mice: identifying epistatic modifiers of BTBD3	\$237,000	Q2.S.E	UNIVERSITY OF CHICAGO
Action anticipation in infants	\$0	Q2.Other	University of Chicago
Development of a connectomic functional brain imaging endophenotype of autism	\$27,327	Q2.Other	University of Cambridge
A computational framework for predicting the impact of mutations in autism	\$533,354	Q2.S.G	UNIVERSITY OF CALIFORNIA SAN DIEGO
Identification of genetic pathways that regulate neuronal circuits in <i>C. elegans</i>	\$51,530	Q2.Other	UNIVERSITY OF CALIFORNIA SAN DIEGO
Protein network of high risk copy number variants for psychiatric disorders	\$227,135	Q2.Other	UNIVERSITY OF CALIFORNIA SAN DIEGO
Using fMRI to understand the Neural Mechanisms of Pivotal Response Treatment	\$29,500	Q2.L.B	University of California, Santa Barbara
Sexually dimorphic gene-expression and regulation to evaluate ASD sex bias	\$62,500	Q2.S.B	University of California, San Francisco
Linking circuit dynamics and behavior in a rat model of autism	\$196,290	Q2.S.D	University of California, San Francisco
Dissecting the 16p11.2 CNV endophenotype in induced pluripotent stem cells	\$51,400	Q2.S.D	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Core Neuroimaging Support Site	\$263,959	Q2.S.G	University of California, San Francisco
Simons Variation in Individuals Project (VIP) Functional Imaging Site	\$820,597	Q2.S.G	University of California, San Francisco

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A gene-driven systems approach to identifying autism pathology	\$999,172	Q2.S.G	University of California, San Francisco
Dissecting Epistasis and Pleiotropy in Autism towards Personalized Medicine	\$83,334	Q2.S.G	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Pathologic and genetic characterization of novel brain cortical patches in young autistic brains	\$0	Q2.Other	University of California, San Francisco
A novel transplantation assay to study human PTEN ASD alleles in GABAergic interneurons	\$0	Q2.Other	University of California, San Francisco
Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2	\$30,000	Q2.Other	University of California, San Francisco
Refining the Tourette Syndrome phenotype across diagnoses to aid gene discovery	\$413,188	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Variation in Neuroligin Concentration and Presynaptic Functional Development	\$196,979	Q2.Other	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Atypical architecture of prefrontal cortex in young children with autism	\$0	Q2.Other	University of California, San Diego
Neural basis of cross-modal influences on perception	\$0	Q2.Other	University of California, San Diego
Stimulus preceding negativity and social stimuli in autism spectrum disorder	\$0	Q2.Other	University of California, San Diego
Using fruit flies to map the network of autism-associated genes	\$62,498	Q2.Other	University of California, San Diego
The Interplay Between Human Astrocytes and Neurons in Psychiatric Disorders	\$0	Q2.Other	University of California, San Diego
Signaling Pathways that Regulate Excitatory-inhibitory Balance	\$0	Q2.Other	University of California, San Diego
Neuroimaging signatures of autism: Linking brain function to genes and behavior	\$184,134	Q2.S.G	University of California, Los Angeles
Genetic and genomic analyses to connect genes to brain to cognition in ASD	\$247,228	Q2.S.G	University of California, Los Angeles
Identification and validation of genetic variants which cause the Autism Macrocephaly subphenotype	\$29,500	Q2.S.G	University of California, Los Angeles
Electrophysiologic biomarkers of language function in autism spectrum disorders	\$0	Q2.L.B	University of California, Los Angeles
Modeling multiple heterozygous genetic lesions in autism using Drosophila melanogaster	\$202,745	Q2.Other	University of California, Los Angeles
A functional genomic analysis of the cerebral cortex	\$142,273	Q2.Other	University of California, Los Angeles
Transcriptional Regulators in Normal Human Brain Development and Autism	\$34,216	Q2.Other	University of California, Los Angeles
Abnormal connectivity in autism	\$0	Q2.Other	University of California, Los Angeles
Genetic models of autism in human neural progenitor cells: a platform for therapeutic discovery	\$0	Q2.Other	University of California, Los Angeles

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Optogenetic treatment of social behavior in autism	\$385,000	Q2.Other	University of California, Los Angeles
A Role for Cytoplasmic Rbfox1/A2BP1 in Autism	\$30,000	Q2.Other	University of California, Los Angeles
Cytoplasmic Functions of Rbfox1, a Candidate Autism Gene	\$192,500	Q2.Other	University of California, Los Angeles
TSC/mTOR Signaling in Adult Hippocampal Neurogenesis: Impact on Treatment and Behavioral Models of Autism Spectrum Disorders in Mice	\$0	Q2.Other	University of California, Los Angeles
BDNF and the Restoration of Synaptic Plasticity in Fragile X and Autism	\$453,289	Q2.S.D	University of California, Irvine
Cortactin and Spine Dysfunction in Fragile X	\$33,319	Q2.S.D	University of California, Irvine
Dual modulators of GABA-A and Alpha7 nicotinic receptors for treating autism	\$0	Q2.Other	University of California, Irvine
IL-1beta and IL1RAPL1: Gene-environment interactions regulating synapse density and function in ASD	\$0	Q2.S.A	University of California, Davis
Project 3: Immune Environment Interaction and Neurodevelopment	\$107,727	Q2.S.A	University of California, Davis
Immune signaling in the developing brain in mouse models of ASD	\$100,000	Q2.S.A	University of California, Davis
Neural Phenotypes of Females with Autism Spectrum Disorder	\$690,279	Q2.S.B	University of California, Davis
Alteration of Dendrite and Spine Number and Morphology in Human Prefrontal Cortex of Autism	\$0	Q2.S.D	University of California, Davis
Language Development in Fragile X Syndrome	\$516,736	Q2.S.D	University of California, Davis
Genotype-Phenotype Relationships in Fragile X Families	\$55,440	Q2.S.D	University of California, Davis
Genotype-Phenotype Relationships in Fragile X Families	\$564,704	Q2.S.D	University of California, Davis
THE ROLE OF MECP2 IN RETT SYNDROME	\$100,000	Q2.S.D	University of California, Davis
THE ROLE OF MECP2 IN RETT SYNDROME	\$353,130	Q2.S.D	University of California, Davis
Predictors of Cognitive Development in Autism Spectrum Disorder	\$557,566	Q2.L.A	University of California, Davis
Synchronous activity in networks of electrically coupled cortical interneurons	\$0	Q2.Other	University of California, Davis
Typical and Pathological Cellular Development of the Human Amygdala	\$385,000	Q2.Other	University of California, Davis
Axonal Ultrastructure of Temporal White Matter in Autism	\$77,750	Q2.Other	University of California, Davis
Experience and cognitive development in infancy	\$0	Q2.Other	University of California, Davis
Project 4: Calcium Signaling Defects in Autism (Pessah/Lein)	\$107,377	Q2.Other	University of California, Davis
Cellular Density and Morphology in the Autistic Temporal Human Cerebral Cortex	\$366,427	Q2.Other	University of California, Davis

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a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95	\$30,000	Q2.Other	University of California, Davis
Rapid screening for cortical circuit dysfunction in autism-related mouse models	\$59,835	Q2.S.D	University of California, Berkeley
Neural Mechanisms of Tactile Sensation in Rodent Somatosensory Cortex	\$251,860	Q2.Other	University of California, Berkeley
Inhibitory mechanisms for sensory map plasticity in cerebral cortex.	\$323,873	Q2.Other	University of California, Berkeley
Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development	\$30,000	Q2.S.G	University of British Columbia
Met Signaling in Neural Development and Circuitry Formation	\$238,640	Q2.Other	UNIVERSITY OF ARIZONA
MAGEL2, a candidate gene for autism and Prader-Willi syndrome	\$52,224	Q2.S.D	University of Alberta
MeCP2 Modulation of BDNF Signaling: Shared Mechanisms of Rett and Autism	\$371,057	Q2.S.D	UNIVERSITY OF ALABAMA AT BIRMINGHAM
Elevated serum neurotensin and CRH levels in children with autistic spectrum disorders and tail-chasing Bull Terriers with a phenotype similar to autism.	\$30,000	Q2.S.A	Tufts University
Role of astrocytic glutamate transporter GLT1 in Fragile X	\$0	Q2.S.D	Tufts University
Antigenic Specificity and Neurological Effects of Monoclonal Anti-brain Antibodies Isolated from Mothers of a Child with Autism Spectrum Disorder: Toward Protection Studies	\$0	Q2.S.A	The Feinstein Institute for Medical Research
Mouse Model of Dup15q Syndrome	\$670	Q2.S.D	Texas AgriLife Research
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$532,028	Q2.Other	TERC Inc
The neurophysiology of sensory processing and multisensory integration in ASD	\$393,813	Q2.Other	SYRACUSE UNIVERSITY
Folate receptor autoimmunity in Autism Spectrum Disorders	\$149,656	Q2.S.A	State University of New York, Downstate Medical Center
IMAGING DEPRESSION IN ADULTS WITH ASD	\$0	Q2.S.E	State University New York Stony Brook
Synergy between genetic risk and placental vulnerability to immune events	\$125,306	Q2.S.A	Stanford University
GABRB3 and Placental Vulnerability in ASD	\$582,482	Q2.S.A	Stanford University
Behavioral, Cognitive, and Neural Signatures of Autism in Girls: Towards Big Data Science in Psychiatry	\$0	Q2.S.B	Stanford University
Restoring cortical plasticity in a Rett mouse model	\$0	Q2.S.D	Stanford University
Investigating the role of Tsc1 in neocortical circuit assembly	\$47,114	Q2.S.D	Stanford University

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Revealing protein synthesis defects in Fragile X Syndrome with new chemical tools	\$347,427	Q2.S.D	Stanford University
Longitudinal MRI Study of Brain Development in Fragile X	\$773,954	Q2.S.D	Stanford University
Neurobiology of RAI1, the causal gene for Smith-Magenis syndrome	\$0	Q2.S.D	Stanford University
Mesocorticolimbic dopamine circuitry in mouse models of autism	\$174,944	Q2.S.D	Stanford University
Characterizing the genetic systems of autism through multi-disease analysis	\$498,198	Q2.S.G	Stanford University
Decoding Affective Prosody and Communication Circuits in Autism	\$138,829	Q2.L.B	Stanford University
Imaging-based real-time feedback to enhance therapeutic intervention in ASD	\$61,530	Q2.L.B	Stanford University
Social Motivations and Striatal Circuit Development in Children and Adolescents with Autism	\$35,000	Q2.L.B	Stanford University
Function of Neurexins	\$488,615	Q2.Other	Stanford University
Role of CNTNAP2 in neuronal structural development and synaptic transmission	\$0	Q2.Other	Stanford University
CLARITY: circuit-dynamics and connectivity of autism-related behavior	\$124,148	Q2.Other	Stanford University
Mathematical Cognition in Autism: A Cognitive and Systems Neuroscience Approach	\$623,389	Q2.Other	Stanford University
Frontostriatal Synaptic Dysfunction in a Model of Autism	\$55,094	Q2.Other	Stanford University
Interrogating Synaptic Transmission in Human Neurons	\$0	Q2.Other	Stanford University
Role of Neurexin in Synapse Formation and Maintenance	\$56,978	Q2.Other	Stanford University
Investigating role of neurexin-1 mutation in autism using human induced neurons	\$53,282	Q2.Other	Stanford University
Brain Systems Supporting Learning and Memory in Children with Autism	\$172,797	Q2.Other	Stanford University
PHENOTYPING ASTROCYTES IN HUMAN NEURODEVELOPMENTAL DISORDERS	\$386,750	Q2.Other	Stanford University
Decoding Neural Systems Underlying Affective Prosody in Children with Autism	\$176,164	Q2.Other	Stanford University
Neurobiological signatures of perception and imitation of AV speech in children w	\$467,562	Q2.Other	SOUTHERN CONNECTICUT STATE UNIVERSITY
Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	\$657,501	Q2.S.G	SLOAN-KETTERING INST CAN RESEARCH
Physiology of Attention and Regulation in Children with ASD and LD	\$332,586	Q2.Other	SEATTLE CHILDREN'S HOSPITAL

Project Title	Funding	Strategic Plan Objective	Institution
Social reward in autism: Electrophysiological, behavioral, and clinical correlates	\$54,400	Q2.Other	SEATTLE CHILDREN'S HOSPITAL
Impact of SynGAP1 Mutations on Synapse Maturation and Cognitive Development	\$614,568	Q2.Other	SCRIPPS FLORIDA
Undergraduate Research Award	\$3,000	Q2.L.B	SAN DIEGO STATE UNIVERSITY
Multimodal Imaging of Social Brain Networks in ASD	\$150,471	Q2.Other	SAN DIEGO STATE UNIVERSITY
Integrity and Dynamic Processing Efficiency of Networks in ASD	\$763,675	Q2.Other	SAN DIEGO STATE UNIVERSITY
fMRI and EEG approaches to the resting state in ASD	\$240,042	Q2.Other	SAN DIEGO STATE UNIVERSITY
Thalamocortical connectivity in children and adolescents with ASD-A combined fMRI and DTI approach	\$0	Q2.Other	SAN DIEGO STATE UNIVERSITY
Dissecting neural mechanisms integrating multiple inputs in C. elegans	\$453,240	Q2.Other	SALK INSTITUTE FOR BIOLOGICAL STUDIES
Neuroactive Steroid GABAA Receptor Positive Modulators for Fragile X Syndrome	\$62,748	Q2.S.D	SAGE THERAPEUTICS, INC.
ASD - Inflammatory Subtype: Molecular Mechanisms	\$0	Q2.S.A	Rutgers University
Identification of TSC cellular phenotypes using patient-derived iPSCs	\$229,322	Q2.S.D	Rutgers University
Undergraduate Research Award	\$3,000	Q2.S.G	Rutgers University
Amygdala circuitry of impaired social-emotional behavior in autism	\$0	Q2.Other	Rosalind Franklin University of Medicine and Science
Sex-Specific Gene-Environment Interactions Underlying ASD	\$0	Q2.S.B	Rockefeller University
Platform for autism treatments from exome analysis	\$289,389	Q2.S.E	Rockefeller University
RNA dysregulation in autism	\$250,000	Q2.Other	Rockefeller University
Caspr2 as an autism candidate gene: a proteomic approach to function & structure.	\$318,000	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Timed mRNA translation events in neocortical development and neurodevelopmental disorders	\$39,276	Q2.Other	RBHS-ROBERT WOOD JOHNSON MEDICAL SCHOOL
Self-Regulation and Sleep in Children At Risk for Autism Spectrum Disorders	\$244,724	Q2.S.E	PURDUE UNIVERSITY
Imaging adaptive cerebellar processing at cellular resolution in awake mice	\$428,215	Q2.Other	PRINCETON UNIVERSITY
Controlling Interareal Gamma Coherence by Optogenetics, Pharmacology and Behavior	\$250,152	Q2.Other	PRINCETON UNIVERSITY
Statistical Methods for Ultrahigh-dimensional Biomedical Data	\$308,918	Q2.Other	PRINCETON UNIVERSITY
Assessing the Cognitive Deficits Associated with 16p11.2 Deletion Syndrome	\$0	Q2.S.G	Posit Science Corporation

Project Title	Funding	Strategic Plan Objective	Institution
A Massively Parallel Approach to Functional Testing of PTEN Mutations	\$0	Q2.S.G	Oregon Health & Science University
Characterizing mechanistic heterogeneity across ADHD and Autism	\$561,952	Q2.Other	Oregon Health & Science University
Characterizing mechanistic heterogeneity across ADHD and Autism	\$140,305	Q2.Other	Oregon Health & Science University
Computational characterization of language use in autism spectrum disorder	\$712,942	Q2.Other	Oregon Health & Science University
Neurologin, oxidative stress and autism	\$75,000	Q2.Other	Oklahoma Medical Research Foundation
Pragmatic language and social-emotional processing in autism, fragile X, and the FMR1 premutation	\$24,898	Q2.S.D	NORTHWESTERN UNIVERSITY
A Family-Genetic Study of Autism and Fragile X Syndrome	\$632,570	Q2.S.D	NORTHWESTERN UNIVERSITY
A Family-Genetic Study of Language in Autism	\$320,687	Q2.S.G	NORTHWESTERN UNIVERSITY
DISRUPTION OF TROPHIC INHIBITORY SIGNALING IN AUTISM SPECTRUM DISORDERS	\$0	Q2.Other	NORTHWESTERN UNIVERSITY
Understanding the Role of Epac2 in Cognitive Function	\$47,676	Q2.Other	NORTHWESTERN UNIVERSITY
The flexibility of individuation and ensemble representation	\$51,530	Q2.Other	NORTHWESTERN UNIVERSITY
Roles of pro-inflammatory Th17 cells in autism	\$249,872	Q2.S.A	New York University
Translation, Synchrony, and Cognition	\$376,430	Q2.S.D	New York University
Neural and cognitive discoordination in autism-related mouse models	\$277,072	Q2.S.D	New York University
Cortico-striatal dysfunction in the eIF4E transgenic mouse model of autism	\$124,496	Q2.S.D	New York University
Imaging markers of brain malformations in people with 16p11.2 alterations	\$60,000	Q2.S.G	New York University
Intrinsic Brain Architecture of Young Children with Autism While Awake and Asleep	\$254,250	Q2.Other	New York University
Canonical neural computation in autism	\$0	Q2.Other	New York University
Interneuron subtype-specific malfunction in autism spectrum disorders	\$240,000	Q2.Other	New York University
Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice	\$66,667	Q2.Other	New York University
Striatal Specific Alterations in Translation, Synaptic Function, and Behavior in	\$81,581	Q2.Other	New York University
Validity and Reliability of New Standard for Resting fMRI Data	\$84,750	Q2.Other	New York University
Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders	\$0	Q2.Other	New York University

Project Title	Funding	Strategic Plan Objective	Institution
Abnormalities in signal transduction in autism	\$20,000	Q2.S.A	New York State Institute for Basic Research in Developmental Disabilities
Determining the role of GABA in four animal models of autism	\$0	Q2.Other	Neurochlore
Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$153,479	Q2.S.D	Nemours Children's Health System, Jacksonville
CIRCADIAN RHYTHMS IN CHILDREN WITH ASD AND THEIR INFANT SIBLINGS	\$0	Q2.S.E	Naval Medical Research Center
A collaborative translational autism research program for the military.	\$966,000	Q2.S.G	Nationwide Children's Hospital
Probing the Molecular Mechanisms Underlying Autism: Examination of Dysregulated Protein Synthesis	\$51,400	Q2.S.D	National Institutes of Health
Dysregulation of Protein Synthesis in Fragile X Syndrome	\$1,060,826	Q2.S.D	National Institutes of Health
Treatment of Medical Conditions among Individuals with Autism Spectrum Disorders	\$496,547	Q2.S.E	National Institutes of Health
Neuroendocrine Regulation of Metabolism and Neurocognition	\$211,825	Q2.S.E	National Institutes of Health
Neuroimmunologic Investigations of Autism Spectrum Disorders (ASD)	\$165,516	Q2.S.F	National Institutes of Health
Multimodal Characterization of the Brain Phenotype in Children with Duplication of the 7q11.23 Williams Syndrome Chromosomal Region: A Well-defined Genetic Model for Autism	\$0	Q2.S.G	National Institutes of Health
PEDIATRIC BRAIN IMAGING	\$1,857,911	Q2.L.A	National Institutes of Health
The Cognitive Neuroscience of Autism Spectrum Disorders	\$1,032,186	Q2.Other	National Institutes of Health
Functional and Structural Optical Brain Imaging	\$634,153	Q2.Other	National Institutes of Health
Learning and plasticity in the human brain	\$409,567	Q2.Other	National Institutes of Health
FUNCTIONAL ANATOMY OF FACE PROCESSING IN THE PRIMATE BRAIN	\$1,678,442	Q2.Other	National Institutes of Health
ANALYSIS OF CORTICAL FUNCTION	\$198,706	Q2.Other	National Institutes of Health
Time Perception and Timed Performance in Autism	\$227,487	Q2.Other	Michigan State University
CAREER: The role of prosody in word segmentation and lexical access	\$0	Q2.Other	Michigan State University
CNTNAP2 regulates production, migration and organization of cortical neurons	\$124,996	Q2.Other	Memorial Sloan-Kettering Cancer Center
Connections between autism, serotonin and hedgehog signaling	\$0	Q2.S.D	Medical Research Council-National Institute for Medical Research
Analysis of MEF2 in Cortical Connectivity and Autism-Associated Behaviors	\$53,282	Q2.S.D	MCLEAN HOSPITAL

Project Title	Funding	Strategic Plan Objective	Institution
Functional analysis of EPHB2 mutations in autism	\$124,950	Q2.Other	MCLEAN HOSPITAL
A Novel GABA Signalling Pathway in the CNS	\$25,000	Q2.Other	MCLEAN HOSPITAL
Protein Interaction Network Analysis to Test the Synaptic Hypothesis of Autism	\$90,000	Q2.Other	MAYO CLINIC ROCHESTER
The effect of maternal obesity and inflammation on neuronal and microglial functi	\$78,250	Q2.S.A	MAYO CLINIC JACKSONVILLE
Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders	\$30,000	Q2.Other	Max Planck Florida Institute for Neuroscience
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
Probing the neural basis of social behavior in mice	\$62,500	Q2.S.D	Massachusetts Institute of Technology
CAREER: Typical and atypical development of brain regions for theory of mind	\$151,160	Q2.Other	Massachusetts Institute of Technology
Impairments of Theory of Mind disrupt patterns of brain activity	\$321,000	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Behavioral, fMRI, and Anatomical MRI Investigations of Attention in Autism	\$53,282	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Shank3 in Synaptic Function and Autism	\$401,250	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Brain Bases of Language Deficits in SLI and ASD	\$614,180	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Using Drosophila to Characterize the Molecular Pathogenesis of Autism	\$195,000	Q2.Other	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$365,480	Q2.Other	Massachusetts Institute of Technology
Characterizing and Manipulating the Social Reward Dysfunction in a Novel Mouse Model for Autism	\$35,000	Q2.Other	Massachusetts Institute of Technology
PET/MRI investigation of neuroinflammation in autism spectrum disorders	\$51,400	Q2.S.A	Massachusetts General Hospital
MicroRNAs in Synaptic Plasticity and Behaviors Relevant to Autism	\$131,220	Q2.S.D	Massachusetts General Hospital
Translational dysregulation in autism pathogenesis and therapy	\$125,000	Q2.S.D	Massachusetts General Hospital
Genotype to Phenotype Association in Autism Spectrum Disorders	\$0	Q2.S.G	Massachusetts General Hospital
The genomic bridge project (GBP)	\$152,352	Q2.S.G	Massachusetts General Hospital
Neuroimaging genetics to study social cognitive deficits in ASD and schizophrenia	\$118,665	Q2.S.G	Massachusetts General Hospital
Local functional connectivity in the brains of people with autism	\$101,012	Q2.L.B	Massachusetts General Hospital
Characterizing Sensory Hypersensitivities in Autism	\$0	Q2.L.B	Massachusetts General Hospital

Project Title	Funding	Strategic Plan Objective	Institution
Analysis of autism linked genes in <i>C. elegans</i>	\$62,500	Q2.Other	Massachusetts General Hospital
Molecular signatures of autism genes and the 16p11.2 deletion	\$0	Q2.Other	Massachusetts General Hospital
Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$149,999	Q2.Other	Massachusetts General Hospital
Functional connectivity substrates of social and non-social deficits in ASD	\$698,074	Q2.Other	Massachusetts General Hospital
Communication Deficits and the Motor System in ASD: Dissecting Patterns of Association and Dissociation Between Them	\$19,323	Q2.Other	Massachusetts General Hospital
Bone Accrual Rates in Boys with ASD	\$196,546	Q2.Other	Lurie Center
Altered sensorimotor processing in a mouse model of autism	\$0	Q2.Other	Louisiana State University School of Veterinary Medicine
Collaborative Research: Revealing the Invisible: Data-Intensive Research Using Cognitive, Psychological, and Physiological Measures to Optimize STEM Learning	\$270,363	Q2.Other	Landmark College
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	\$149,044	Q2.S.D	King's College London
Identification and Functional Analysis of Risk Genes for Autistic Macrocephaly	\$30,000	Q2.S.G	King's College London
In-vivo MRS assay of brain glutamate-GABA balance and drug response in autism	\$59,949	Q2.L.B	King's College London
Understanding the brain basis of impaired imitation learning in autism	\$0	Q2.Other	Kennedy Krieger Institute
Why are autistic females rare and severe? An approach to autism gene identification.	\$0	Q2.S.B	Johns Hopkins University
The Role of Glia in Fragile X Syndrome	\$60,000	Q2.S.D	Johns Hopkins University
Dynamic regulation of Shank3 and ASD	\$616,945	Q2.Other	Johns Hopkins University
The role of the GRIP protein complex in AMPA receptor trafficking and autism spectrum disorders	\$45,000	Q2.Other	Johns Hopkins University
GABAergic dysfunction in autism	\$0	Q2.Other	Johns Hopkins University
HIGH THROUGHPUT SCREEN FOR SMALL MOLECULE PROBES FOR NEURAL NETWORK DEVELOPMENT	\$405,000	Q2.Other	Johns Hopkins University
Investigating Brain Connectivity in Autism at the Whole-Brain Level	\$232,967	Q2.Other	Johns Hopkins University
Dysfunction of Sensory Inhibition in Autism	\$202,145	Q2.Other	Johns Hopkins University
Role of LIN28/let-7 axis in autism	\$125,000	Q2.Other	Johns Hopkins University
Reducing Diversity at the Gamma Protocadherin Locus by CRISPR Targeting	\$275,342	Q2.Other	JACKSON LABORATORY

Project Title	Funding	Strategic Plan Objective	Institution
Mapping the Neurobehavioral Phenotype in Phelan McDermid Syndrome	\$35,000	Q2.S.D	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Neural Basis of Behavioral Flexibility	\$356,612	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Molecular control of prefrontal cortical circuitry in autism	\$254,250	Q2.Other	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI
Multigenic basis for autism linked to 22q13 chromosomal region	\$249,999	Q2.S.D	Hunter College of the City University of New York (CUNY) jointly with Research Foundation of CUNY
EEG-Based Assessment of Functional Connectivity in Autism	\$175,176	Q2.Other	HUGO W. MOSER RESEARCH INSTITUTE KENNEDY KRIEGER
Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition	\$0	Q2.Other	Hospital Riviere-des-Praires, University of Montreal, Canada
A system-level approach for discovery of phenotype specific genetic variation in ASD	\$29,500	Q2.S.G	Hebrew University of Jerusalem
Simons Variation in Individuals Project (VIP) Imaging Analysis Site	\$44,209	Q2.S.G	Harvard University
Undergraduate Research Award	\$3,000	Q2.S.G	Harvard University
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$28,600	Q2.L.B	Harvard University
A Novel Essential Gene for Human Cognitive Function	\$35,030	Q2.S.D	HARVARD MEDICAL SCHOOL
Activity-dependent phosphorylation of MeCP2	\$177,055	Q2.S.D	HARVARD MEDICAL SCHOOL
The role of UBE3A in autism	\$125,001	Q2.S.D	Harvard Medical School
Neurotrophic Factor Regulation of Gene Expression	\$615,631	Q2.S.D	HARVARD MEDICAL SCHOOL
MIG-6 tumor suppressor gene protein and ERK 1 and 2 and their association with EGF and EGFR in autistic children	\$7,040	Q2.S.A	Hartwick College
Anti-GAD antibodies in autism	\$9,650	Q2.S.A	Hartwick College
Neuregulin 1 (NRG1) in autistic children	\$5,520	Q2.S.A	Hartwick College
The Social Brain in Schizophrenia and Autism Spectrum Disorders	\$523,573	Q2.Other	HARTFORD HOSPITAL
Maximizing Biospecimen Collection from Children with Mental Health Conditions	\$1	Q2.S.C	GROUP HEALTH COOPERATIVE
RI: Small: Addressing visual analogy problems on the raven's intelligence test	\$0	Q2.Other	Georgia Tech Research Corporation
Mechanisms of mitochondrial dysfunction in autism	\$0	Q2.S.A	Georgia State University
Gesture as a forerunner of linguistic change- insights from autism	\$0	Q2.L.A	Georgia State University
Functional Connectivity during Working Memory in Children with ASD: A NIRS Study	\$0	Q2.Other	Georgetown University
Neural basis of working memory and inhibitory control in ASD Children using NIRS	\$29,976	Q2.Other	GEORGETOWN UNIVERSITY

Project Title	Funding	Strategic Plan Objective	Institution
Simons Variation in Individuals Project (VIP) Recruitment Core and Phase 2 Coordination Site	\$651,290	Q2.S.G	Geisinger Clinic
Identifying the gene in 17q12 responsible for neuropsychiatric phenotypes	\$140,875	Q2.S.G	Geisinger Clinic
Molecular mechanisms of electrical synapse formation in vivo	\$90,000	Q2.Other	FRED HUTCHINSON CANCER RESEARCH CENTER
Foundation Associates agreement (BrainNet)	\$625,000	Q2.S.C	Foundation Associates, LLC
Immune p38-alpha MAPK activation: Convergent mechanism linking autism models	\$105,403	Q2.S.A	Florida Atlantic University
MATERNAL BRAIN-REACTIVE ANTIBODIES AND AUTISM SPECTRUM DISORDER	\$0	Q2.S.A	Feinstein Institute for Medical Research
The role of UBE3A in autism: Is there a critical window for social development?	\$108,900	Q2.S.D	Erasmus University Medical Center
Tet-mediated Epigenetic Modulation in Autism	\$684,145	Q2.S.D	Emory University
Genetic Modifiers of Seizure Disorders in Fragile X Syndrome	\$261,539	Q2.S.D	Emory University
Targeting the PI3K Enhancer PIKE to Reverse FXS-associated Phenotypes	\$206,000	Q2.S.D	Emory University
Imaging of protein synthesis and ubiquitination in fragile x syndrome	\$234,000	Q2.S.D	Emory University
Predicting risk and resilience in ASD through social visual engagement	\$210,158	Q2.L.B	Emory University
Ontogeny and neural basis of social visual engagement in monkeys	\$312,009	Q2.Other	Emory University
Modulation of RhoA Signaling by the mRNA Binding Protein hnRNPQ1	\$31,356	Q2.Other	Emory University
Verbal/non-verbal asynchrony in adolescents with high-functioning Autism	\$381,620	Q2.Other	EMERSON COLLEGE
MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$0	Q2.Other	Emerson College
White matter glial pathology in autism	\$0	Q2.Other	East Tennessee State University
The role of Shank3 in neocortex versus striatum and the pathophysiology of autism	\$25,000	Q2.S.D	Duke University
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	Duke University
PRECURSORS TO THE DEVELOPMENT OF ANXIETY DISORDERS IN YOUNG CHILDREN WITH AUTISM SPECTRUM DISORDER	\$0	Q2.S.E	Duke University
Animal Model of Genetics and Social Behavior in Autism Spectrum Disorders	\$673,494	Q2.S.G	Duke University

Project Title	Funding	Strategic Plan Objective	Institution
The Role of Shank3 in Neocortex Versus Striatum and the Pathophysiology of Autism	\$0	Q2.S.G	Duke University
Analysis of Shank3 Complete and Temporal and Spatial Specific Knockout Mice	\$425,202	Q2.Other	Duke University
Networked Cortical Responses to Movement Associated with ASD	\$372,970	Q2.Other	Duke University
Neuronal Basis of Vicarious Reinforcement Dysfunction in Autism Spectrum Disorder	\$309,761	Q2.Other	Duke University
The Striatal Circuitry Underlying Autistic-Like Behaviors	\$32,419	Q2.Other	Duke University
Mapping functional neural circuits that mediate social behaviors in autism	\$125,000	Q2.Other	Duke University
Engagement of Social Cognitive Networks during Game Play in Autism	\$29,933	Q2.Other	Duke University
Dissecting Reciprocal CNVs Associated With Autism	\$30,000	Q2.Other	Duke University
Presynaptic Fragile X Proteins	\$249,000	Q2.S.D	DREXEL UNIVERSITY
The Impact of Pten Signaling on Neuronal Form and Function	\$405,000	Q2.Other	DARTMOUTH COLLEGE
Assessment of glutamate delta-1 receptor in mental disorders	\$181,875	Q2.Other	CREIGHTON UNIVERSITY
CAREER: Integrative behavioural and neurophysiological studies of normal and autistic cognition using video game environments	\$0	Q2.Other	Cornell University
Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia	\$0	Q2.L.B	Connecticut Mental Health Center
Mitochondrial dysfunction due to aberrant mTOR-regulated mitophagy in autism	\$183,568	Q2.S.A	Columbia University
Infection, fever and immune signatures in an autism birth cohort	\$788,507	Q2.S.A	Columbia University
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	\$0	Q2.S.D	Columbia University
Phagocytosis is misregulated in a Drosophila model of Fragile X syndrome	\$27,349	Q2.S.D	Columbia University
Molecular analysis of gene-environment interactions in the intestines of children with autism	\$150,000	Q2.S.E	Columbia University
Simons Variation in Individuals Project (VIP) Principal Investigator	\$263,318	Q2.S.G	Columbia University
Simons Variation in Individuals Project (VIP) Statistical Core Site	\$240,657	Q2.S.G	Columbia University
Modeling alteration of RBFOX1 (A2BP1) target network in autism	\$0	Q2.Other	Columbia University
Neural Basis of Deficits in Multisensory Integration in Schizophrenia and ASD	\$0	Q2.Other	Columbia University

Project Title	Funding	Strategic Plan Objective	Institution
Understanding the Genetic Architecture of Rett Syndrome - an Autism Spectrum Disorder	\$30,000	Q2.S.D	Cold Spring Harbor Laboratory
Cortical inhibition and disrupted vocal perception in MeCP2 +/- mice	\$81,970	Q2.S.D	Cold Spring Harbor Laboratory
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$467,000	Q2.Other	COLD SPRING HARBOR LABORATORY
Cell adhesion molecules in autism: a whole-brain study of genetic mouse models	\$47,900	Q2.Other	COLD SPRING HARBOR LABORATORY
Alterations in brain-wide neuroanatomy in autism mouse models	\$300,000	Q2.Other	Cold Spring Harbor Laboratory
New Models For Astrocyte Function in Genetic Mouse Models of Autism Spectrum Diso	\$396,250	Q2.S.D	CLEVELAND CLINIC LERNER COM-CWRU
Behavioral and cognitive characteristics of females and males with autism	\$0	Q2.S.B	Cleveland Clinic Foundation
The Neural Bases of Top-Down Attentional Control in Autism Spectrum Disorders	\$14,160	Q2.Other	CITY COLLEGE OF NEW YORK
Testing the ribosomal protein S6 as treatment target and biomarker in autism spectrum disorders	\$59,995	Q2.S.D	Cincinnati Children's Hospital Medical Center
The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia	\$15,000	Q2.Other	Cincinnati Children's Hospital Medical Center
Activity-dependent Mechanisms of Visual Circuit Formation	\$30,000	Q2.Other	Children's Research Institute (CRI) Children's National Medical Center
Developmental in Axons underlie Neuropsychiatric Illness	\$30,000	Q2.Other	Children's Research Institute (CRI) Children's National Medical Center
AUTISM AND OBESITY: CO-OCCURRING CONDITIONS OR DRUG SIDE EFFECTS?	\$0	Q2.S.E	Children's Mercy Hospital
Phenotypic Characterization of MECP2 Mice	\$66,830	Q2.S.D	Children's Hospital of Philadelphia
Neural Correlates of the Y Chromosome in Autism: XYY Syndrome as a Genetic Model	\$290,609	Q2.S.D	Children's Hospital of Philadelphia
Characterizing 22q11.2 abnormalities	\$124,995	Q2.S.D	Children's Hospital of Philadelphia
Simons Variation in Individuals Project (Simons VIP) Functional Imaging Site and Structural Imaging/Phenotyping Site	\$1,335,122	Q2.S.G	Children's Hospital of Philadelphia
Neurobiological Correlates of Motor Impairment in Children with 16p11.2	\$60,000	Q2.S.G	Children's Hospital of Philadelphia
Electrophysiological Signatures of Language Impairment in Autism Spectrum Disord	\$318,332	Q2.Other	Children's Hospital of Philadelphia
Structural and Functional Neuroimaging of the Auditory System in Autism	\$157,982	Q2.Other	Children's Hospital of Philadelphia
Functional connectivity in autism spectrum disorders	\$209,375	Q2.Other	Children's Hospital of Philadelphia
Function and Structure Adaptations in Forebrain Development	\$662,342	Q2.Other	Children's Hospital Los Angeles

Project Title	Funding	Strategic Plan Objective	Institution
Mechanisms of Autonomic Brainstem Development	\$243,000	Q2.Other	Children's Hospital Los Angeles
MRI Biomarkers of Patients with Tuberous Sclerosis Complex and Autism	\$716,468	Q2.S.D	CHILDREN'S HOSPITAL CORPORATION
Mechanisms Underlying the Cerebellar Contribution to Autism in Mouse Models of Tu	\$190,458	Q2.S.D	CHILDREN'S HOSPITAL CORPORATION
DEVELOPMENTAL SYNAPTOPATIES ASSOCIATED WITH TSC, PTEN AND SHANK3 MUTATIONS	\$310,086	Q2.S.G	CHILDREN'S HOSPITAL CORPORATION
Electrophysiological Response to Executive Control Training in Autism	\$248,969	Q2.Other	CHILDREN'S HOSPITAL CORPORATION
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	\$147,806	Q2.S.D	Case Western Reserve University
Identification of genes responsible for a genetic cause of autism	\$250,000	Q2.Other	Case Western Reserve University
Impact of NR2B mutations on NMDA receptors and synapse formation	\$0	Q2.Other	Case Western Reserve University
Reliability of Sensory-Evoked Activity in Autism Spectrum Disorders- Project 1	\$91,937	Q2.L.B	Carnegie Mellon University
Unreliability of neuronal responses in mouse models of autism	\$125,000	Q2.Other	Carnegie Mellon University
The mechanism of the maternal infection risk factor for autism	\$150,000	Q2.S.A	California Institute of Technology
Direct Recordings from the Brain in Autism	\$60,000	Q2.S.E	California Institute of Technology
Direct recording from autism brains	\$60,074	Q2.S.E	California Institute of Technology
Single-unit recordings in neurosurgical patients with autism	\$0	Q2.S.E	California Institute of Technology
CAREER: Dissecting the neural mechanisms for face detection	\$0	Q2.Other	California Institute of Technology
Autism and the insula: Genomic and neural circuits	\$0	Q2.Other	California Institute of Technology
The Computational Basis of Theory of Mind in the Human Brain	\$130,695	Q2.Other	CALIFORNIA INSTITUTE OF TECHNOLOGY
Investigating brain organization and activation in autism at the whole-brain level	\$30,000	Q2.Other	California Institute of Technology
Linking genetic mosaicism, neural circuit abnormalities and behavior	\$62,500	Q2.S.D	Brown University
Development of vision and attention in typical and ASD individuals	\$301,210	Q2.S.G	BROWN UNIVERSITY
Role of endosomal NHE6 in brain connectivity and autism	\$0	Q2.Other	Brown University
Genetic-imaging study of obsessive compulsive behavior in autism	\$395,918	Q2.Other	BROWN UNIVERSITY

Project Title	Funding	Strategic Plan Objective	Institution
Na ⁺ -H ⁺ Exchanger Mechanisms in Autism Pathophysiology and Treatment	\$29,478	Q2.Other	Brown University
Role of the 16p11.2 CNV in autism: genetic, cognitive and synaptic/circuit analyses	\$300,850	Q2.S.G	Broad Institute, Inc.
Elucidating the Function of Class 4 Semaphorins in GABAergic Synapse Formation	\$333,553	Q2.Other	BRANDEIS UNIVERSITY
Semaphorin4D and PlexinB1 mediate GABAergic synapse development in mammalian CNS	\$14,920	Q2.Other	BRANDEIS UNIVERSITY
Undergraduate Research Award	\$3,000	Q2.S.G	Boston University
Mechanisms underlying word learning in children with ASD: Non-social learning and	\$171,433	Q2.Other	Boston University
Organization of Excitatory and Inhibitory Circuits in ASD	\$395,236	Q2.Other	Boston University
Artifacts as Windows to Other Minds: Social Reasoning In Typical and ASD Children	\$53,282	Q2.Other	Boston University
Sex-specific regulation of social play	\$320,770	Q2.S.B	BOSTON COLLEGE
Sex and age differences in the regulation of social recognition	\$469,500	Q2.S.B	BOSTON COLLEGE
Role of microglia and complement at developing synapses in ASD	\$62,500	Q2.S.A	Boston Children's Hospital
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$149,937	Q2.S.D	Boston Children's Hospital
Probing synaptic receptor composition in mouse models of autism	\$249,994	Q2.S.D	Boston Children's Hospital
Simons Variation in Individuals Project (VIP) Site	\$328,913	Q2.S.G	Boston Children's Hospital
Characterization of infants and toddlers with the 16p copy-number variation	\$0	Q2.S.G	Boston Children's Hospital
Understanding the etiological significance of attentional disengagement in infants at-risk for ASD	\$0	Q2.L.A	Boston Children's Hospital
Mechanical characterization of brain tissue and individual neurons in Autism Spectrum Disorders	\$41,902	Q2.Other	Boston Children's Hospital
Corticothalamic circuit interactions in autism	\$100,000	Q2.Other	Boston Children's Hospital
Neurobiological Mechanism of 15q11-13 Duplication Autism Spectrum Disorder	\$376,818	Q2.S.D	BETH ISRAEL DEACONESS MEDICAL CENTER
Neurobiology of Aggression Co-morbidity in Mouse Model of Idic15 Autism	\$217,500	Q2.S.E	BETH ISRAEL DEACONESS MEDICAL CENTER
Cortical Plasticity in Autism Spectrum Disorders	\$443,702	Q2.Other	BETH ISRAEL DEACONESS MEDICAL CENTER
THE GENETIC AND NEUROANATOMICAL ORIGIN OF SOCIAL BEHAVIOR	\$100,657	Q2.S.B	BAYLOR COLLEGE OF MEDICINE
Mechanisms and Rescue of Neural Circuit Dysfunction in Mecp2 Mutant Mice	\$92,578	Q2.S.D	BAYLOR COLLEGE OF MEDICINE

Project Title	Funding	Strategic Plan Objective	Institution
TMLHE deficiency and a carnitine hypothesis for autism	\$0	Q2.S.D	Baylor College of Medicine
Motor cortex plasticity in MeCP2 duplication syndrome	\$62,500	Q2.S.D	Baylor College of Medicine
Simons Variation in Individuals Project (VIP) Site	\$0	Q2.S.G	Baylor College of Medicine
HIGH THROUGHPUT SEQUENCING OF AUTISM SPECTRUM DISORDER (ASD) ENDOPHENOTYPES	\$39,876	Q2.S.G	BAYLOR COLLEGE OF MEDICINE
Multisensory processing in autism	\$60,000	Q2.Other	Baylor College of Medicine
The role of the new mTOR complex, mTORC2, in autism spectrum disorders	\$0	Q2.Other	Baylor College of Medicine
Hippocampal mechanisms of social learning in animal models of autism	\$125,000	Q2.Other	Baylor College of Medicine
Addressing challenges to post-mortem tissue donation in families affected with autism	\$0	Q2.S.C	Autism Science Foundation
Building awareness of the value of brain tissue donation for autism research	\$180,330	Q2.S.C	Autism Science Foundation
Dysregulation of mTOR Signaling in Fragile X Syndrome	\$487,251	Q2.S.D	ALBERT EINSTEIN COLLEGE OF MEDICINE
Monoallelic expression in neurons derived from induced pluripotent stem cells	\$414,150	Q2.Other	ALBERT EINSTEIN COLLEGE OF MEDICINE

